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	EXRAND-M-40	25 X 1
	4 February 1971	•
	COMIREX SUBCOMMITTEE For EXPLOITATION RESEARCH AND DEVELOPMENT	
	Minutes of Meeting Held in Beige Room 0900-1200, Wednesday, 20 January 1971	
		25 X 1
•		
	The Chairman welcomed the EXRAND Members and Observers. He noted	
	that this was the first official meeting for pf NRTSC.	25 X 1
	1. Special Briefing.	
	introduced of the Research and Engineerin	g 25X1
	Division, Technical Services Group, NPIC, who briefed on the Optical an Digital Image Manipulation projects underway at NPIC. A synopsis of the briefing is attached.	e ·
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2. Approval of Minutes.		
With the exception of a minor correction, t meeting were approved.	UNCLASSIFIED the minutes of the previous	
a. provided a handout showing the trip to Wright-Patterson Air Force Base. The as 12, 13, and 14 April. Additional information Executive Secretary prior to the meeting in March	n will be provided by the	25X1
b. stated that there are some aspect of the 1540 light tables and that some an needed to bring the first delivery group up to is not a serious situation, but there is some sleast for the first group of deliveries.	SECRET difficulties with the T&E dditional time may be performance standards. This	25X1
c. commented on the Automatic under test and evaluation and stated the capabi	CONFIDENTIAL Target Indexing Device now lities of the contractor.	25 X 1
d. mentioned that he had not ron several beneficial suggestions that he had s	UNCLASSIFIED received return comments ent to members of EXRAND.	25X1
		،25 X 1
f. With the planned decommissioning of of its functions to the 548th in Hawaii, three returned to the national equipment reserve (NEX these processors could be made available to som organizations, if they could show a need. These	ne specific exploitation	25X1
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with the new viscous duping of SO-192, provided that a viscous modular cabinet is purchased to convert the Fultron to viscous. SECRET g.	ted in Part - Sanitized Copy Approved for Release 2012/10/24 : CIA-RDP79B00873A001800020	ZUA 1
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of sever a great the Cons	I generally the projects listed and presented a verbal analysis ral of them. He also pointed up several projects which may have impact in the Community. He recommended wider distribution of solidated R&D Project List and recommended that the distribution same as the NPIC Equipment Summary. EXRAND members agreed with	2574
Consolid this mee	comments and directed the Executive Secretary to acquire bedate distribution list. reported that the dated R&D List had been distributed to members a week preceding eting and that the members should take another week to review jects. Comments on and corrections to the List should be pro-	25X1 25X1
vided to be expec		25X1
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the CCB	recommended that the NRO representative take under ration the designation of someone to be responsible to coordinate projects into the Consolidated R&D Project List. This had not a done. The EXRAND members concurred and will see that an input of CCB projects of interest to the EXRAND Community.	25X1 25X
It was a paper so erations	also recommended by the committee that Mr. Newell modify his omewhat covering the analysis of the Technical Task Team delibs and that it be prepared as a covering letter forwarding the dated R&D Project List to COMIREX.	
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for 1971 and visi were not also exp	The Executive Secretary presented a plan for EXRAND activities 1. The plan covered proposed special briefings, demonstrations, its to be undertaken by EXRAND. He explained that the papers t all inclusive and should be expanded upon by the members. He pressed a number of thoughts to take into consideration for the reconcerning the responsibilities of EXRAND to the Community.	
	(1) In preparing the schedule of activities and deliberating d discussing matters coming before EXRAND, we should constantly fer to the new EXRAND Objectives for guidance.	
and	(2) EXRAND should deliberate in a "non-political" atmosphere on the future exploitation imagery systems and provide the advice d guidance to each represented segment of the Community. They ould know early-on of the planned acquisition systems.	

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	(3) EXRAND is also a repository for obtaining wise council on R&D matters for the Exploitation Community. It is a body which recognizes and anticipates changes, then acts when the dynamic nature of R&D signals these changes.	25 X 1
	The Executive Secretary will now compile a revised schedule for briefings, demonstrations, and visits and present them at the 17 February meeting. It is noted here that a number of the briefings may not be available until later in the year and even then we may receive changes in dates and schedules. A copy of the proposed schedules for EXRAND is attached.	25X1
	Executive Secretary, EXRAND	
	Attachments: 1. Briefing Notes 2. Proposed EXRAND Schedules	
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EXRAND BRIEFING

Optical & Digital Image Manipulation

- 1. The status of the NPIC R&D program in image manipulation was reviewed and examples of improved manipulated imagery were shown.
- 2. The digital approach, supported by ARPA and NPIC and performed at the University of California, San Diego, is the more flexible but is limited to small (few millimeters square) image areas and large computers. Current investigations involve operational imagery with very encouraging results. Work in 1971 will be restricted mainly to determining the applicability of the system to operational imagery.
- 3. Optical manipulation, performed at NPIC with contractor support has succeeded in improving imagery at higher spatial frequencies than heretofore demonstrated anywhere using high pass spatial filtering. Other types of filtration are also being investigated. While not as flexible as the digital approach in some respects, optical processing offers large area improvement at the speed of light for many useful operations.
- 4. In the future a hybrid system (optical and digital) is anticipated wherein the operator will select the technique that meets his requirements.

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		ATTACHMENT 2 to EXRAND-M-40	25 X 1
	PROSPECTIVE VISITS		
<u>March</u>			
17 March	Visit the Advanced Technology Branch, the EXRAND meeting. Luncheon at the N Tour of Laboratory, 1330-1500.	RED/TSG/NPIC after avy Officers Mess.	
April			
12-14 April	Wright-Patterson AFB, Dayton, Ohio		
	Visit: FTD Avionics Laboratory Recon Central		
<u>May</u>			
	Visit RADC, Rome, New York. R&D facil on current and future R&D projects rel		
July			
		ities with regard to s, limited number of	25 X 1
August	Visit SAMSO (Los Angeles), Vandenberg (Sunnyvale).	AFB, and STC/Lockhead	
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ATTACHMENT 2 to

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BRIEFINGS AND DEMONSTRATIONS

SCHEDULED

February

17 February -- "Special High Contrast Reproduction". Sponsored by the CCB -- NPIC/CCB.

(Objective: Duplicating Equipment and Emulsions)

March

- 17 March -- (1) "Techniques for Determing Color Values" -- NPIC (Objective: "High-Resolution Color Imagery Exploitation")
 - (2) "Power Density Spectrum" -- NPIC (Objectives: a. Multi-Spectral Exploitation, b. Image Manipulation and Transmission)

RECOMMENDED FOR SCHEDULING

- 1. Status briefing on Near Real Time (EOI). Prognosis of exploitation systems.
- 2. Status briefing on Multispecteral systems and effect upon exploitation equipment.
- 3. Status of Dry Process Film Reproduction -- non-silver and silver.
- 4. Special report on significant developments for FY 1971-72; a resume of R&D projects by Chairman, Technical Task Team.

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- 5. Status of Very High Resolution Acquisition Materials.
- 6. Report on High Resolution Color Materials.
- 7. View/demonstration of the Digital Imagery Manipulation System -- NPIC.
- 8. View/demonstration of the Target Indexing Device -- NPIC.
- 9. Status report/viewing of the High Precision Stereo Comparator -- NPIC.
- 10. Value of Rear Projection Viewing for future film materials exploitation.

12. Impact of the "SENIOR LANCE" program (SLR) upon the exploitation community.

Apr Dog

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